

WHAT IS CLAIMED IS:

- 1                    1.        An organopolysiloxane composition prepared by reaction of  
2 components comprising:  
3 (a)        essentially linear organopolysiloxanes terminated at both ends by Si-bonded  
4            hydroxy groups,  
5 (b)        optionally, plasticizers,  
6 (c)        at least one chain extender of the formula



- 8 and/or partial hydrolysates thereof, where  
9  $\text{R}^1$         are identical or different and are each a monovalent, substituted or  
10            unsubstituted hydrocarbon radical,  
11  $\text{R}^2$         are identical or different and are each a monovalent, substituted or  
12            unsubstituted hydrocarbon radical and  
13  $\text{R}^6$         are identical or different and are each hydrogen or a monovalent, substituted  
14            or unsubstituted hydrocarbon radical,  
15 (d)        one or more deactivators,  
16 (e)        optionally, one or more silanes of the formula



- 18 and/or their partial hydrolysates, where  
19  $\text{R}^3$         is as defined for  $\text{R}^1$ ,  
20  $\text{R}^4$         are identical or different and are each a monovalent, substituted or  
21            unsubstituted hydrocarbon radical or a  $-\text{C}(=\text{O})-\text{R}^5$  or  $-\text{N}=\text{CR}^5_2$  radical and  
22  $\text{R}^5$         are identical or different and each have one of the meanings given for  $\text{R}^2$ ,  
23            and  
24 (f)        optionally, catalysts for accelerating the reaction of silane (e) with Si-OH  
25 groups.

1                    2.     The organopolysiloxane composition of claim 1, wherein at  
2     least one deactivator (d) is an isocyanate.

1                    3.     The organopolysiloxane composition of claim 1 which has a  
2     viscosity of from 100 to 1,000,000 mPa's, measured at 25°C.

1                    4.     A process for preparing an organopolysiloxane composition  
2     of claim 1, comprising mixing components comprising (a) essentially linear  
3     organopolysiloxanes which are terminated at both ends by Si-bonded hydroxy  
4     groups, (b) optionally, plasticizers, (c) at least one chain extender of the formula (I),  
5     (d) at least one deactivator, (e) optionally, one or more silanes of the formula (II)  
6     and (f) optionally, catalysts for accelerating the reaction of silane (e) with Si-OH  
7     groups, and allowing components to react.

1                    5.     The process of claim 4, wherein, in a first step, dihydroxy-  
2     terminated organopolysiloxanes (a) are mixed with any plasticizer (b) used and  
3     reacted with silanes (c) of the formula (I) and/or their partial hydrolysates, and after  
4     a reaction time, in a second step, at least one deactivator (d) is added, and  
5     optionally, in a third step, Si-OH groups still present are reacted by addition of  
6     silane(s) (e) of the formula (II) and/or their partial hydrolysates and, if desired,  
7     catalyst (f).

1                    6.     The process of claim 5, wherein said Si-OH groups still  
2     present are completed reacted with said silane(s) (e).

1                    7.     The process of claim 4, wherein a mixture of the chain  
2     extender (c) with deactivator(s) (d), optionally, silane(s) (e), and optionally,  
3     catalyst(s) (f) is added to a mixture of dihydroxy-terminated organopolysiloxanes (a)  
4     and optionally plasticizer (b).

1                    8.     The process of claim 4, wherein the molar amount of  
2     deactivator(s) (d) is from 10 to 200%, based on the molar amount of chain  
3     extender(s) (c) used.

1                    9.     A composition which is crosslinkable by means of  
2     condensation reactions, comprising at least one organopolysiloxane composition (A)  
3     of claim 1.

1                    10.    A composition which is crosslinkable by means of  
2     condensation reactions, comprising at least one organopolysiloxane composition (A)  
3     prepared by the process of claim 4.

1                    11.    The crosslinkable composition of claim 9, further comprising:  
2                    (B)    optionally, one or more crosslinkers having at least three  
3                                organooxy radicals,  
4                    (C)    at least one condensation catalyst, and  
5                    (D)    at least one filler.

1                    12.    The crosslinkable composition of claim 10, further  
2     comprising:  
3                    (B)    optionally, one or more crosslinkers having at least three  
4                                organooxy radicals,  
5                    (C)    at least one condensation catalyst, and  
6                    (D)    at least one filler.

1                    13.    The crosslinkable composition of claim 9 which is an RTV-1  
2     composition.

1                    14.    A shaped body prepared by crosslinking of a composition  
2     comprising at least one crosslinkable composition of claim 9.

1                    15.    A shaped body prepared by crosslinking of a composition  
2     comprising at least one crosslinkable composition of claim 10.